

B1

edge. This process is inherently cost-inefficient and unreliable, imposes space constraints in chip design, and is therefore unsuitable for manufacturing.

In the Claims:

Please amend claim 17 as follows:

- Sub. c1 →
B2
17. (Amended) A chemical separation device comprising:
a substrate defining a channel,
a plurality of posts fabricated from said substrate and extending from said channel, an electrically insulating layer on the surface of the plurality of posts and
a stationary phase bound to the posts, said posts providing interaction with an analyte introduced into said channel for producing separation, wherein said analyte is electrically insulated from said substrate.
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